

NEW YORK'S WATER SUPPLY**THE PERIL OF RELYING ON A SINGLE OVER-TAXED AQUEDUCT.**

The Present Condition Subjected to Dr. Stratton Says a New One Should be Built.

In accordance with the instructions of Commissioner of Public Works Hubert O. Thompson, the Chief Engineer of the Croton Aqueduct, Isaac Newton, has made a report relative to the water supply of the city. The design and construction of the Croton Aqueduct, which conveys the entire water supply to the city, says Chief Engineer Newton, estimated the full capacity of the conduit at 60,000,000 gallons per day. To deliver this supply the aqueduct must be filled only to the spring line of the roof arch. But during 1880 the average daily delivery, according to estimates, was 25,000,000 gallons, and the records of the Department of Public Works show that this rate has been maintained for about seven years. In order to discharge this quantity of water the conduit must be filled above the spring line of the roof arch, producing an outward pressure on the walls of the aqueduct at places not designed for that amount of pressure. In places where the aqueduct was not on solid ground and had settled, this depth of water at the other points brings the water in the depressed sections in contact with the root.

To subject the aqueduct to additional pressure, "says Chief Engineer Newton, "would be incurring a fearful and unjustifiable risk, and was never intended in the original plan. From the time the maximum discharge was first reached to the present, the population of the city has increased over twenty-five per cent, so that in each successive year the inadequacy of the water supply has become more and more serious. The city can receive through the present aqueduct no more than it now conveys; hence, the population increases, the average supply per head must decrease, and pressure or height at which water can be delivered to the houses will necessarily diminish. The time is not far distant when the supply will not, in many localities, rise above the basement, while in some situations the water will be almost wholly cut off. A few years since the water in some localities would run on the fourth floor; a little later, barely on the third floor; now, in the same house, it will hardly flow on the second floor, and in a year or so, it will not rise above the basement, the case already at times in localities not favored with high service. This is a condition which, in view of the fact that in its rapid growth the city has out-run its water supply."

After mentioning the causes of the increase of water consumption and setting forth that the history of the water supply of modern cities shows that the necessary consumption of water increases at a rate higher than that of increase in population, Chief Engineer Newton says: "Regarding the large reservoir in Central Park, proper caution demands that it should not be used for the principal object in the construction of this reservoir was to keep available a supply of water in case a break should occur in the aqueduct, making it necessary to have it for examination and repairs. To draw off the water from the aqueduct and again to renew its delivery into the reservoir would require a long time. Such a break occurs, the time consumed in repairing it must be added to this. Such an accident occurring when the Park reservoir is nearly dry would be a calamity more than an inconvenience; in case of a large fire it might be a calamity of the most appalling character. That destruction of property might bring in a loss far greater than the cost of an additional aqueduct."

"Under the circumstances, two things are of vital importance. First, we must do what we must, kept in the most efficient condition possible. Second, every effort must be made to enforce economy in the use of water, and to prevent waste. On the strength of the present city water supply we may be forced to serve with the least inconvenience until additional works are constructed."

The works now in progress on the Bronx and East Rivers, and the new reservoirs to be constructed will probably be relied upon to furnish from fifteen to sixteen millions of gallons daily as shown by a report on the subject made to the Legislature by Mr. Johnson, 102d Street west house No. 5, Brooklyn.

OPERATORS—Willing & Gibbons; ambitious, noisy, and efficient plan work; good wages. REYNOLDS.

PARASOLES—Good ladies wanted. G. R. BYRD Co., 414 Broadway, New York.

STRAW SEWERS—On Wilcox & Gibbs improved; hands; good pay. 136 Greene St.

UMBRELLA—and parasol hands wanted at 301 Canal.

WANTED—A spinster on cords; she girls to knot and tie fringes. R. V. WAGNER, 167 and 169 Canal St.

WANTED—A few experienced hands to slim and twist lace skirt material. C. A. SCHMIDT, 88 Chambers St.

WANTED—Parson and sun umbrella hands; good work, good pay. 136 Greene St.

WANTED—Two young ladies for a restaurant in a ladies' restaurant. Adults at 40 Peacock St., Brooklyn.

WANTED—Girls to net lace; mouth. C. A. SCHMIDT, 88 Chambers St.

WANTED—Expert girls to pack hats and boxes; and silver; no others needed. G. Frost at 301 Canal.

WANTED—A few girls at dressmaking; also a learned.

WANTED—Girls to sew on clothing tickets at 300 Canal.

WANT—Young girls can obtain situations free. Jobbing and tailoring; also a few odd jobs. Mrs. H. M. St. Mark's Ladies' Club, block east of Cooper Institute under care of Children's Aid Society.

THE SWEEP OF THE FLAMES.

Wood Lands in Blaze in Many Places, and Towns Surrounded by Fire.

PORT JERVIS, April 28.—The forest fires which have been raging near this village in every direction still continue their ravages in the mountains. A heavy wind has fanned the flames to-day and added to their destructive power. Three or four miles north of this village is a thickly wooded swamp which has hitherto escaped the flames. To-day this was kindled, and a great conflagration is now going on, which will probably last for several days. Several farm houses not far from the edge of the swamp, and some anxiety is felt for the safety of the inmates. Some of them are hastily moving out, while others propose to remain and try to save their property. There is also a large quantity of logs and wood near the swamp, which if burned would be a heavy loss to the owners.

In Sussex County the fires have not yet reached the Barrons, but are burning fiercely in that direction. In Orange County, the fire front has reached the town of Port Jervis, and several small villages, and at the last report were threatening the town. Hoping this will meet your favorable consideration.

BALLES' COMMITTEE.

TO BAKERS—The regular meeting of the Bakers' Committee will be held on Friday evening, April 20, at 6 East 4th st. All non-members are invited to attend. Initiation fee, \$1.

TO Carriage Painters—Wanted, twenty-five years and over, a carriage factory and finishing ave. COE & MERRIT.

WANTED ADVERTISEMENTS

NOT EXCEEDING THREE LINES

PUBLISHED IN THE DAILY NEWS

FORTY-FIVE CENTS AN INSERTION.

CIRCULATION OVER 120,000 COPIES PER DAY.

WANTED—We want a live, responsible man to take control of our New York office for the sale of our products. We offer you a good salary, and you are prepared to invest. If our terms are satisfactory to you, address us at Murray Valley Spice Co., 81 Beaver St., New York.

ARTIFICIAL FLOWERS—Good branches on piece work; steady employment. 136 Greene St.

A—**WANTED**—Experience with hands, no work given out. FISK, CLARK & FLAGG, 630 Broadway.

A COUPLE—of ours wanted for the country. 4 in city families, and 3 young girls. 136 Greene St., above 10th st.

ARTIFICIAL FLOWERS—Good branches on piece work; steady employment. 136 Greene St.

A GOOD tailors on fine cotton fabric; high wages paid; call all week. 63 East 11th st.

A—**WANTED**—Fraternal waist and skirt finishers who buy; men who thoroughly understand the handling of furniture; ask for King.

A FIRST CLASS operators wanted on fine custom shirts. CLARK, 19 West 18th st.

A GIRL to mind baby. 28 Oliver st.

HEADERS—on fine lace work; steady work. 9 Green st., Jersey City. 602 Broadway, third floor.

BONNACZ—First-class operators only. Call at 144 South 5th st.

DRIMMER—wanted. 200 Canal st., 136 Greene St.

E—**WANTED**—A furniture porter; none need apply; but a man who thoroughly understands the handling of furniture; ask for King.

EXTRA—**WANTED**—A practical stonemason to take charge of stone yard. To a competent man liberal wages will be made in writing, addressed to STONE YARD, 29th av., corner Madison, Brooklyn.

WANTED—A first-class foreman to take entire charge of our new building on 10th st., between 1st and 2nd avs. Address: COMPTON, 101 1/2 N. 7th st.

WANTED—Ten carmen for framing and roofing. Apply to owner at new building on 10th st., between 1st and 2nd avs.

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